

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nOY1726147176
District RP	1RP-4814
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Dale Woodall	Contact Telephone (575) 748-1838
Contact email dale.woodall@dvn.com	Incident # (assigned by OCD) nOY1726147176
Contact mailing address 6488 Seven Rivers Hwy, Artesia NM 88210	

Location of Release Source

Latitude **32.196434** Longitude **-103.6347809**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Bell Lake 24 Federal #001H	Site Type Oil
Date Release Discovered 09/05/2017	API# (if applicable) 30-025-41182

Unit Letter	Section	Township	Range	County
M	24	24S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 8 bbls	Volume Recovered (bbls) 0 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release **Vic clamp on the three-phase separator developed a leak. The three-phase separator was immediately bypassed to stop the release.**

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: Approximately 8 bbls produced water was released due to a leak. 0 bbls produced water was recovered. The release traveled North from the three-phase separator impacting approximately 100' x 8' area on the well pad. An environmental contractor will be contacted to assist with the delineation and remediation.	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Dale Woodall</u>	Title: <u>Env. Professional</u>
Signature: _____	Date: _____
email: <u>dale.woodall@dvn.com</u>	Telephone: <u>(575) 748-1838</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Dale Woodall Title: Env. ProfessionalSignature: *Dale Woodall* Date: 10/5/2022email: dale.woodall@dvn.com Telephone: (575) 748-1838**OCD Only**Received by: Jocelyn Harimon Date: 10/05/2022

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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Dale Woodall Title: Env. Professional
Signature: Dale Woodall Date: 10/5/2022
email: Dale.Woodall@dvn.com Telephone: (575) 748-1838

OCD Only

Received by: Jocelyn Harimon Date: 10/05/2022

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral Approved

Signature: Bethany Hall Date: 10/5/2022

Incident ID	nOY1726147176
District RP	1RP-4814
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Dale Woodall Title: Env. Professional
Signature: Dale Woodall Date: 10/5/2022
email: dale.woodall@dvn.com Telephone: (575) 748-1838

OCD Only

Received by: Jocelyn Harimon Date: 10/05/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Souder, Miller & Associates ♦ 201 S. Halagueno St. ♦ Carlsbad, NM 88220
(575) 689-8801

May 27, 2020

#5E29133-BG11

NMOCD District 2
Mr. Victoria Venegas
811 S. First St., Artesia, NM 88210

SUBJECT: Remediation Closure Report for the Bell Lake 24 Fed 1H Release, Carlsbad, New Mexico

Dear Ms. Venegas:

On behalf of Devon Energy Production Company, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Bell Lake 24 Fed 1H site. The site is in Unit C, Section 18, Township 26S, Range 34E, Lea County, New Mexico, on Federal land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

Table 1: Release Information and Closure Criteria			
Name	Bell Lake 24 Fed 1H	Company	Devon Energy Production Company
API Number	30-025-41182	Location	32.196434 -103.6347809
Incident Number	1RP-4814		
Estimated Date of Release	September 5, 2017	Date Reported to NMOCD	September 18, 2017
Land Owner	Federal	Reported To	NMOCD, BLM, NMSLO
Source of Release	Vic clamp on the three-phase separator developed a leak.		
Released Volume	8 bbls	Released Material	Produced Water
Recovered Volume	0 bbls	Net Release	8 bbls
NMOCD Closure Criteria	>100 feet to groundwater		
SMA Response Dates	3/19/2020, 4/7/2020, 4/23/2020, 4/30/2020, 5/6/2020		

1.0 Background

On September 5, 2017, a release was discovered at the Bell Lake 24 site due to a Vic clamp on a three-phase separator developing a leak. Eight (8) barrels of produced water was released but remained on location. Initial response was conducted by Devon personnel, which included source elimination and containment activities, but no fluid was recovered. No further action was taken, and SMA was contracted to complete remediation of the release. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. The C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Bell Lake 24 Fed 1H is located approximately 27 miles from Jal, New Mexico on Federal (BLM) land at an elevation of approximately 3,572 feet above mean sea level (amsl).

Based upon water well data (Appendix B), depth to groundwater in the area is calculated to be approximately 363 feet below grade surface (bgs). There are no known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 5/8/2020). The nearest significant watercourse is an unnamed playa, located approximately 11,888 feet to the south east. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of greater than 100 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC.

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

3.0 Release Characterization and Remediation Activities

On March 19, 2020 and April 7, 2020, SMA personnel arrived on site in response to the release associated with Bell Lake 24 Fed 1H. SMA performed site delineation activities by collecting soil samples around the release site; no visible staining was observed. Soil samples were field screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp and/or for hydrocarbon impacts using a Dextsil® PetroFLAG TPH Analyzer.

A total of ten (10) sample locations (S1-S6 and SW1-SW4) were investigated using a hand-auger, to depths up to two (2) feet bgs. A total of 26 samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

As summarized in Table 3a and shown on Figure 3a, results indicated that an area approximately 47 feet by 25 feet by 1.5 feet deep had been impacted. A large portion of the contaminant is located within the footprint of in-use equipment. The remaining area outside of the equipment area (represented by samples S3 and SW2) measured 16 feet by 21 feet by 1.5 feet deep.

On April 23, and April 30 SMA returned to the site to guide the excavation of contaminated soil. Due to the presence of site equipment and aboveground pipelines, excavation was limited to one area. SMA

**Bell Lake 24 Fed 1H Closure Report
May 27, 2020**

Page 3 of 5

guided the excavation by collecting soil samples for field screening. The walls and based were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on April 20, 2020 that closure samples were expected to be collected in two (2) business days.

From April 23, 30 and May 6, 2020 SMA conducted confirmation sampling of the walls and base of the excavation, which measured approximately 16 feet by 21 feet. The northern portion of the excavation was scraped to approximately 0.5 feet, and the remaining area was excavated to a depth of two (2) feet bgs,

Confirmation samples were comprised of five-point composites of the base (CS1, CS2, CS3) and walls (SW1, SW2, SW3, SW4), as shown on Figure 3b.

A total of twelve (12) samples were collected for laboratory analysis. Laboratory samples were collected in accordance with the sampling protocol included in Appendix C. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico and Cardinal Laboratories in Hobbs, New Mexico (Appendix D).

On behalf of Devon, SMA is requesting remediation deferral for the areas represented by soil samples S1, S2, and S4 due to the proximity of oil and gas operations equipment. Samples S1 and S2 were collected next to separators, S4 was collected adjacent to heater treaters, and SW4 is directly parallel with the fencing separating equipment with the rest of the well pad. Any excavation past two feet in depth would compromise the stability of the equipment. The contamination has been delineated and does not cause imminent risk to human health, the environment or groundwater. The soil will remain in place until the site location's abandonment and pad reclamation activities.

Figure 3a shows the extent of the affected area along with all sample locations acquired. Figure 3b shows the extent of the excavation and confirmation sample locations. All laboratory results are summarized in Tables 3a and 3b. Laboratory reports are included in Appendix D.

Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at R360 Environmental Solutions located near Hobbs, NM, an NMOCD permitted disposal facility.

5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Ashley Maxwell at 505-320-9241 or Shawna Chubbuck at 505-325-7535.

Bell Lake 24 Fed 1H Closure Report
May 13, 2020

Page 4 of 5

Submitted by:
SOUDEY, MILLER & ASSOCIATES

A handwritten signature in black ink, appearing to be 'AM' or 'JL' in a stylized cursive script.

Ashley Maxwell
Project Manager

Reviewed by:

A handwritten signature in blue ink that reads 'Shawna Chubbuck'.

Shawna Chubbuck
Senior Scientist

Bell Lake 24 Fed 1H Closure Report
May 13, 2020

Page 5 of 5

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map

Figure 3a: Initial Site and Sample Location Map

Figure 3b: Final Site and Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3a: Summary of Initial Sample Results

Table 3b: Summary of Closure Sample Results

Appendices:

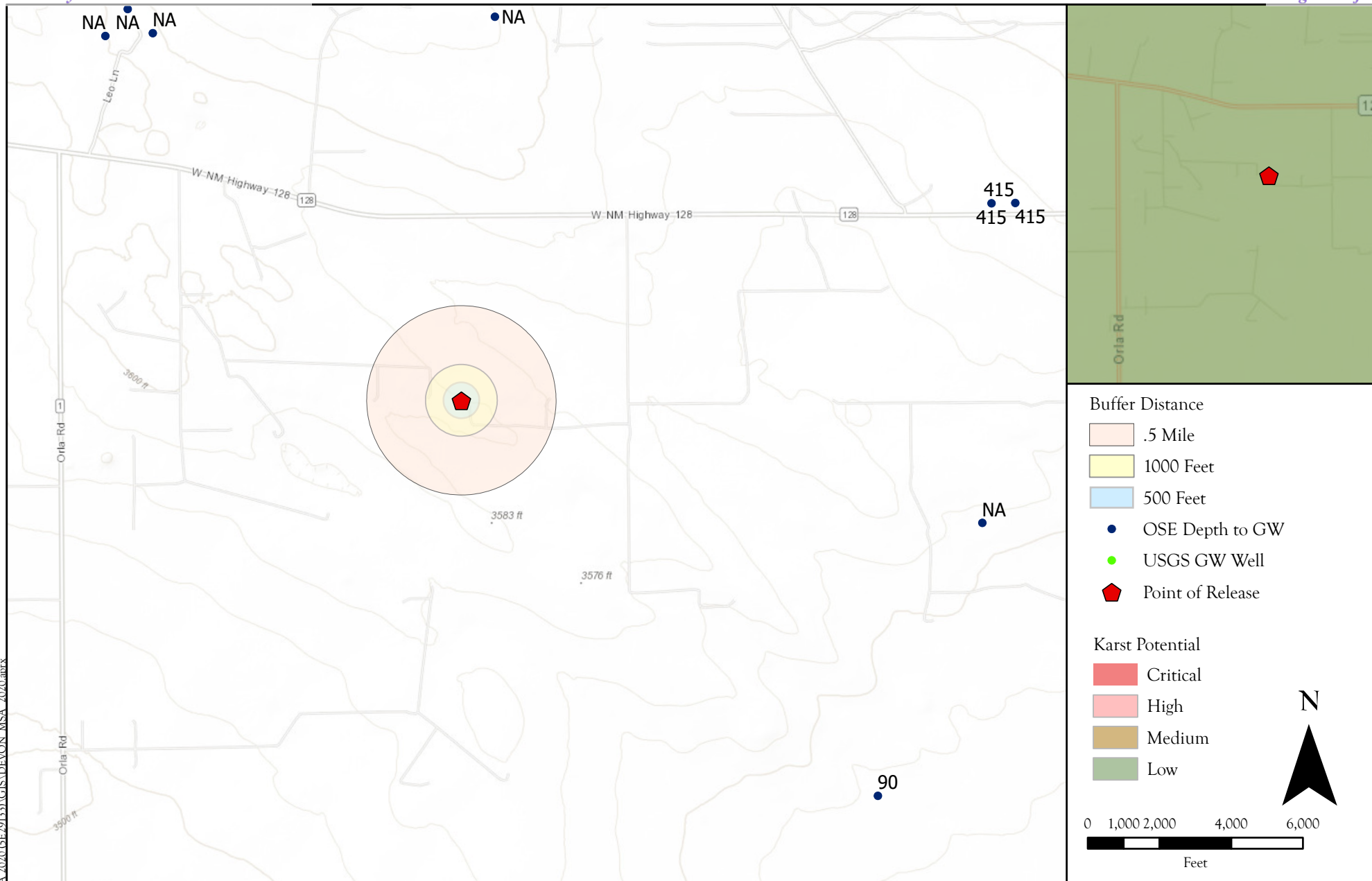
Appendix A: Form C141

Appendix B: NMOSE Wells Report

Appendix C: Photographs

Appendix D: Laboratory Analytical Reports

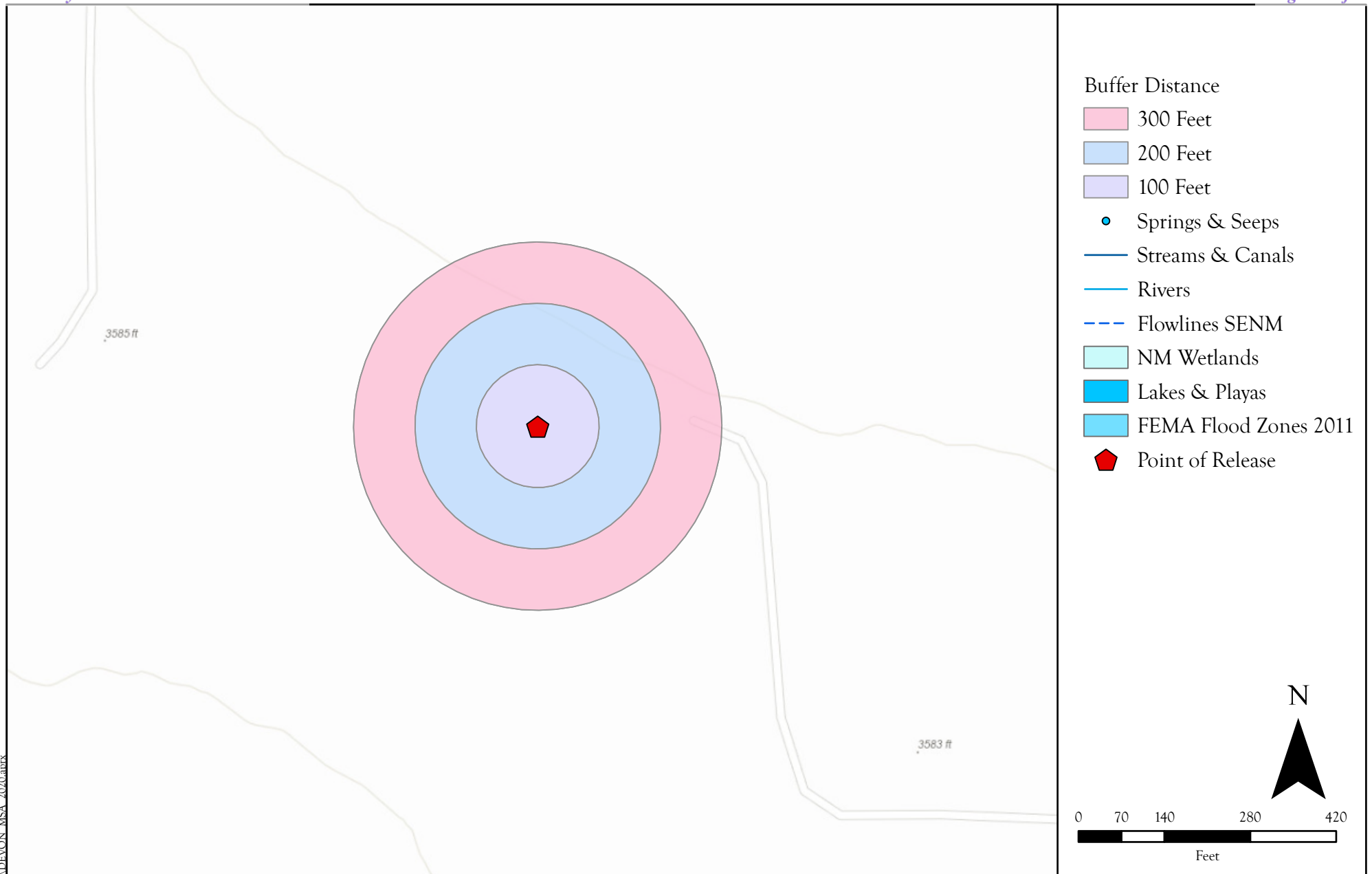
FIGURES



Site Map
 Bell Lake 24 Fed 1H - Devon Energy
 UL: M S: 24 T: 24S R: 33E, Lea County, New Mexico

Figure 1

Revisions By: _____ Date: _____ Descr: _____ By: _____ Date: _____ Descr: _____ © Souder, Miller & Associates, 2020, All Rights Reserved	Drawn Date Checked Approved Lynn A. Acosta 3/17/2020		201 South Halaguena Street Carlsbad, New Mexico 88221 (575) 689-7040 Serving the Southwest & Rocky Mountains
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Surface Water Protection Map
 Bell Lake 24 Fed 1H- Devon Energy
 UL: M S: 24 T: 24S R: 33E Lea County, New Mexico

Figure 2

Revisions

By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____

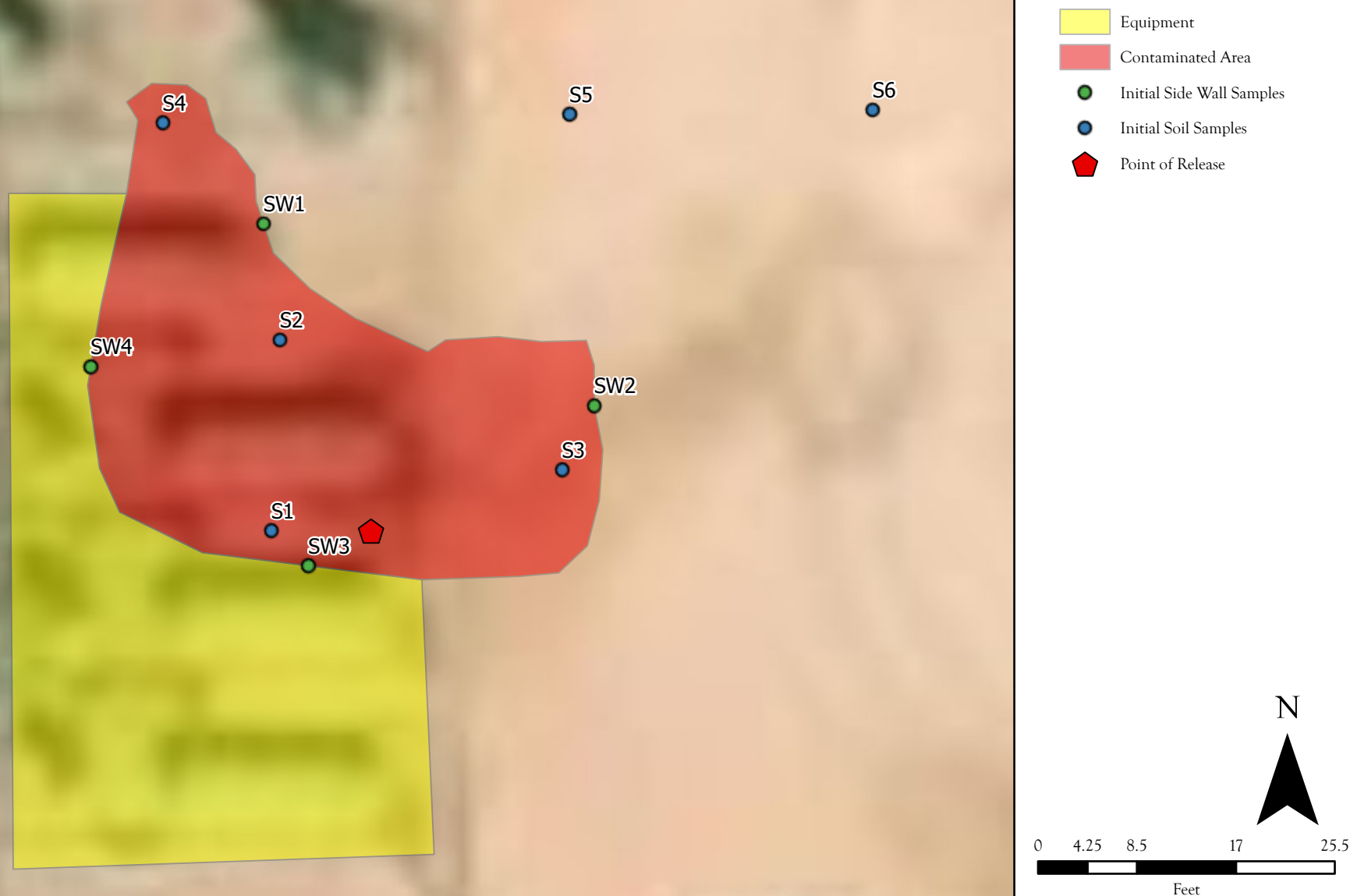
Drawn
 Date
 Checked
 Approved

Sebastian Orozco
 4/14/2020



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Site and Sample Location Map
 Bell Lake 24 Fed 1H- Devon Energy
 UL: M S: 24 T: 24S R: 33E Lea County, New Mexico

Figure 3a

Revisions

By: _____ Date: _____ Descr: _____
 By: _____ Date: _____ Descr: _____

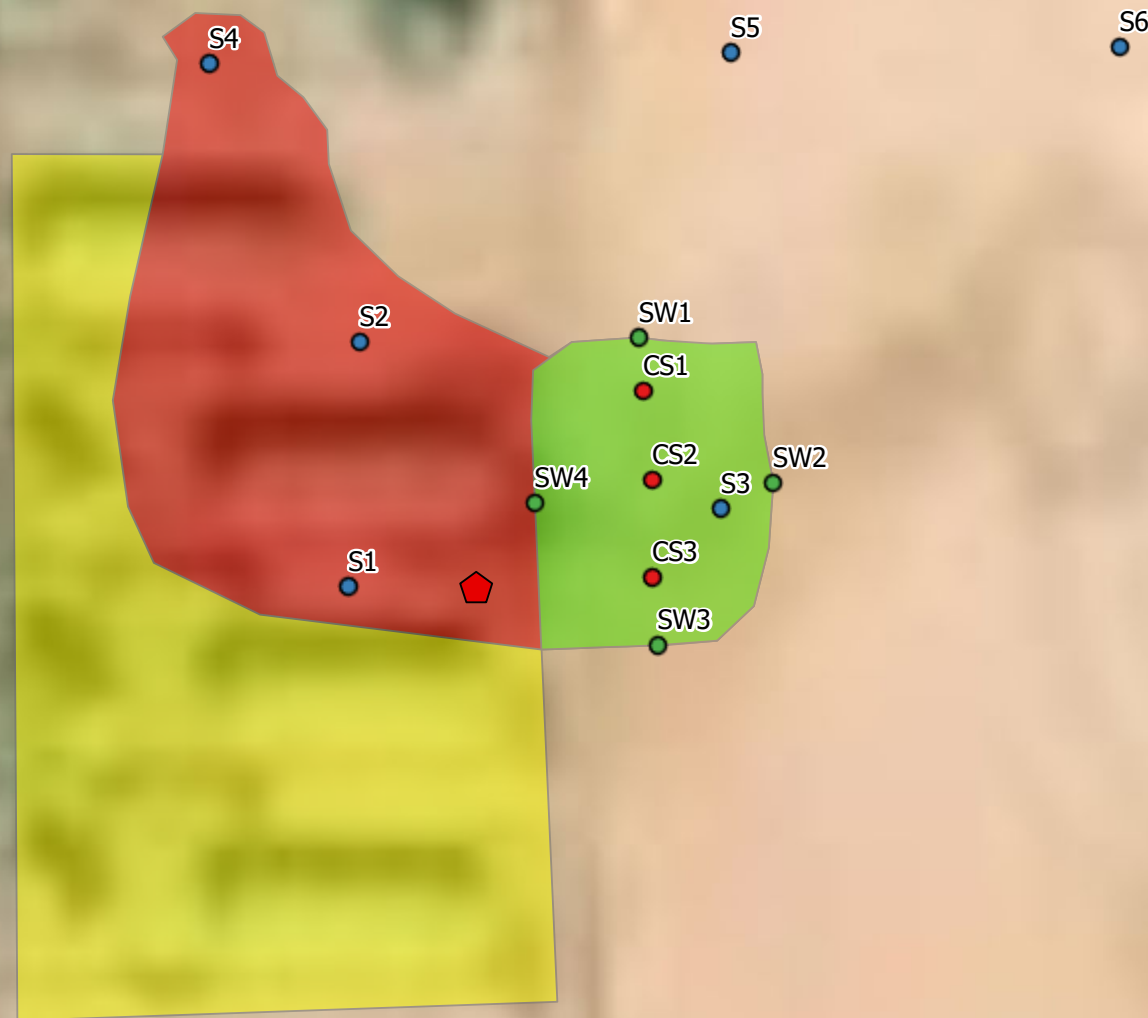
Drawn
 Date
 Checked
 Approved

Sebastian Orozco
 5/14/2020

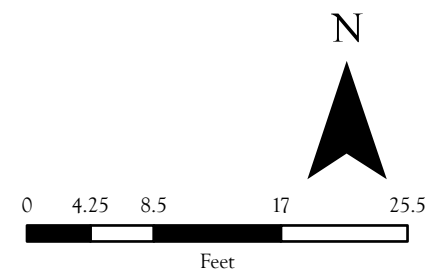


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- Equipment
- Deferral Area
- Excavation
- Bottom Hole Closure Samples
- Closure Side Wall Samples
- Initial Soil Samples
- Point of Release



Site and Sample Location Map
 Bell Lake 24 Fed 1H- Devon Energy
 UL: M S: 24 T: 24S R: 33E Lea County, New Mexico

Figure 3b

Revisions

By: _____	Date: _____	Descr: _____
By: _____	Date: _____	Descr: _____

Drawn	Sebastian Orozco
Date	5/14/2020
Checked	_____
Approved	_____



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TABLES

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes				
Depth to Groundwater (feet bgs)	~363	New Mexico Office of the State Engineer				
Horizontal Distance From All Water Sources Within 1/2 Mile (ft)	NA	USGS Topographic Map				
Horizontal Distance to Nearest Significant Watercourse (ft)	11,839	Unnamed Playa				
Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride *numerical limit or background, whichever is greater	TPH	GRO + DRO	BTEX	Benzene
< 50' BGS		600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'	x	20000	2500	1000	50	10
Surface Water	yes or no	if yes, then				
<300' from continuously flowing watercourse or other significant watercourse?	No	600	100		50	10
<200' from lakebed, sinkhole or playa lake?	No					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
<1000' from fresh water well or spring?	No					
Human and Other Areas						
<300' from an occupied permanent residence, school, hospital, institution or church?	No					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine	No					
within an unstable area?	No					
within a 100-year floodplain?	No					

Table 3a:
Summary of Sample Results

Sample ID	Sample Date	Depth (feet bgs)	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	Total TPH mg/Kg	Cl- mg/Kg
NMOCD Closure Criteria (0-4 ft)			50	10				100	600
S1	3/19/2020	Surface	<1.05	<0.12	<23	2,900	3,500	6,400	540
		0.5	-	-	<4.6	600	600	1,200	-
		1	-	-	<5.0	70	93	163	-
		1.5	-	-	<4.9	14	<48	14	-
S2	3/19/2020	Surface	<1.07	<0.12	<24	930	1,400	2,330	<60
	4/7/2020	0.5	-	-	<4.9	110	170	280	-
	4/7/2020	1	-	-	<4.8	<9.6	<48	<62.4	-
	4/7/2020	1.5	-	-	<4.8	23	<48	23	-
S3	3/19/2020	Surface	<1.08	<0.12	<24	4,700	4,000	8,700	480
	3/19/2020	0.5	-	-	<4.8	1,900	1,100	3,000	-
	3/19/2020	1	-	-	<4.8	280	150	430	-
	4/7/2020	1.5	-	-	<4.8	22	<50	22	-
	4/7/2020	2	-	-	<4.9	<9.5	<48	<62.4	-
S4	3/19/2020	Surface	<0.216	<0.024	<4.8	33	84	117	<60
	4/7/2020	0.5	-	-	<5.0	20	<48	20	-
S5	3/19/2020	Surface	<0.207	<0.023	<4.6	28	110	138	480
		0.5	-	-	<4.7	31	<48	31	-
		1	-	-	<4.9	22	<50	22	-
		1.5	-	-	<4.9	<9.8	<49	<63.7	-
S6	3/19/2020	Surface	<0.212	<0.024	<4.7	<9.6	<48	<62.3	95
SW1	3/19/2020	Surface	<0.213	<0.024	<4.7	280	390	670	110
	4/7/2020	Surface	<0.213	<0.024	<4.7	<9.4	<47	<61.1	240
SW2	3/19/2020	Surface	<0.221	<0.025	<4.9	<9.7	89	89	270
SW3	3/19/2020	Surface	<0.216	<0.024	<4.8	<9.6	<48	<62.4	<59
SW4	3/19/2020	Surface	<1.12	<0.12	<25	360	820	1,180	340
	4/7/2020	Surface	<0.212	<0.024	<4.7	<9.4	<47	<61.1	540

"--" = Not Analyzed

* = per Reclamation Standard (19.15.29.13.D(1) NMAC)

Table 3b:
Summary of Sample Results

Sample ID	Sample Date	Depth of Sample (feet bgs)	Action Taken	Method 8021B		Method 8015D				Method 300.0
				BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Reclamation Requirement (0-4 ft)				50	10	--	--	--	100	600
SW1	4/23/2020	0-0.5	Excavated	<0.300	<0.050	<10.0	88.7	20.7	109.4	240
	5/6/2020	0-2.0	In-situ	-	-	<4.9	<9.3	<47	<61.2	-
SW2	4/23/2020	0-0.5	Excavated	<0.300	<0.050	<10.0	364	177	541	7,440
	4/30/2020	0-2.0	In-situ	<0.210	<0.023	<4.7	<9.7	<49	<63.4	260
SW3	4/23/2020	0-0.5	Excavated	<0.300	<0.050	<10.0	125	33.8	158.8	7,040
	4/30/2020	0-2.0	In-situ	<0.162	<0.018	<3.6	<9.5	<47	<60.1	<59
SW4	4/23/2020	0-2.0	Excavated	<0.300	<0.050	<10.0	1,390	445	1,835	2,600
CS1	4/23/2020	2.0	In-situ	<0.300	<0.050	<10.0	42.6	15.9	58.5	112
CS2	4/23/2020	0.5-2.0	Excavated	<0.300	<0.050	<10.0	104	19.6	123.6	896
	4/30/2020	2.0	In-situ	<0.161	<0.018	<3.6	<9.7	<48	<61.3	<60
CS3	4/23/2020	0.5	Excavated	<0.300	<0.050	<10.0	140	34.5	174.5	5,040
	4/30/2020	2.0	In-situ	<0.167	<0.019	<3.7	<9.4	<47	<60.1	170

"--" = Not Analyzed

BG: Background sample

APPENDIX A FORM C141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company	Contact Matt Nettles, Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-513-5767
Facility Name Bell Lake 24 Fed 1H	Facility Type Oil
Surface Owner Federal	Mineral Owner Federal
API No 30-025-41182	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	24	24S	32E	200'	FSL	660'	FWL	Lea

Latitude: 32.196434

Longitude: -103.6347809

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 8bbls	Volume Recovered 0bbls
Source of Release Three-phase separator	Date and Hour of Occurrence September 5, 2017 @ 9:27 AM	Date and Hour of Discovery September 5, 2017 @ 9:27 AM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Vic clamp on the three-phase separator developed a leak. The three-phase separator was immediately bypassed to stop the release.		
Describe Area Affected and Cleanup Action Taken.* Approximately 8bbls produced water was released due to a leak. 0bbls produced water was recovered. The release traveled North from the three-phase separator impacting a 100' x 8' area on the well pad. An environmental contractor will be contacted to assist with the delineation and remediation.		

RECEIVED

By Olivia Yu at 12:41 pm, Sep 18, 2017

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Sheila Fisher	OIL CONSERVATION DIVISION	
Printed Name: Sheila Fisher	Approved by Environmental Specialist: 	
Title: Field Admin Support	Approval Date: 9/18/2017	Expiration Date:
E-mail Address: Sheila.fisher@dvn.com	Conditions of Approval: see attached directive	Attached ☒
Date: 9/18/17 Phone: 575.748.1829		

* Attach Additional Sheets If Necessary

1RP-4814

nOY1726147176

pOY1726147464

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	≤50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 9/18/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-4814 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 10/18/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bell Lake 24 Fed 1H

8bbbs pw_9.5.17

devon

This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere

Prepared by: Sheila Fisher

Map is current as of: 07-Sep-2017



Miles

0 0.01 0.02 0.04 1: 1,779



APPENDIX B

NMOSE WELLS REPORT



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 03528 POD1		C	LE	1	1	2	15	24S	32E	626040	3566129	4076	541		
C 01932		C	ED	3	1	12	24S	32E	628633	3567188*	4162	492			
C 02350		CUB	ED	4	3	10	24S	32E	625826	3566333*	4370	60			
C 02890		C	LE	2	4	29	24S	33E	633114	3562012*	4545	500			
C 02431		CUB	LE	4	4	4	17	24S	33E	633175	3564728*	4804	525	415	110
C 02432		CUB	LE	4	4	4	17	24S	33E	633175	3564728*	4804	640	415	225
C 02312		CUB	LE	1	2	1	05	25S	33E	632241	3559687*	4879	150	90	60
C 02430		CUB	LE	3	3	3	16	24S	33E	633377	3564732*	4994	643	415	228
Average Depth to Water:														333 feet	
Minimum Depth:														90 feet	
Maximum Depth:														415 feet	

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 628682.732

Northing (Y): 3563025.638

Radius: 5000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/13/20 11:22 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Table 4:
Potential Depth to Groundwater

Devon Energy
Bell Lake 24 Fed 1H

Depth To Groundwater			Calculations	
Location Elevation (ft):		3579		
Well Name	Well Elevation (ft)	Well Depth to GW	Groundwater Elevation	Depth to GW at Location
C 03528 POD 1	3590	-	NA	NA
C 01932	3602	-	-	-
C 02350	3601	-	-	-
C 02890	3515	-	-	-
C 02431	3573	415	3158	421
C 02432	3573	415	3158	421
C 02312	3476	90	3386	193
C 02430	3575	415	3160	419
				3579
Total # of Wells	4			1454

Potential Depth to GW at Release:	363.5
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APPENDIX C

Photographs











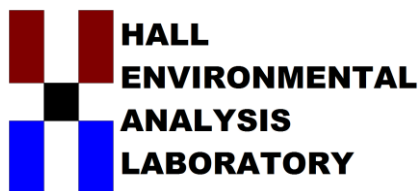


☼ 276°W (T) ☉ 32°11'46"N, 103°38'6"W ±13ft ▲ 3582ft



APPENDIX D

LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 27, 2020

Ashley Maxwell
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-8801
FAX:

RE: Bell Lake 24 Fed 1H

OrderNo.: 2003984

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/21/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2003984

Date Reported: 3/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S1

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 1:05:00 PM

Lab ID: 2003984-001

Matrix: SOIL

Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	540	60		mg/Kg	20	3/26/2020 2:34:24 PM	51338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 11

Analytical Report

Lab Order 2003984

Date Reported: 3/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S2

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 1:08:00 PM

Lab ID: 2003984-002

Matrix: SOIL

Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	3/26/2020 3:36:08 PM	51338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 11

Analytical Report

Lab Order 2003984

Date Reported: 3/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S3

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 1:10:00 PM

Lab ID: 2003984-003

Matrix: SOIL

Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	480	60		mg/Kg	20	3/26/2020 3:48:29 PM	51338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 11

Analytical Report

Lab Order 2003984

Date Reported: 3/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S4

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 1:15:00 PM

Lab ID: 2003984-004

Matrix: SOIL

Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	3/26/2020 4:00:50 PM	51338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 11

Analytical Report

Lab Order 2003984

Date Reported: 3/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S5

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 1:38:00 PM

Lab ID: 2003984-005

Matrix: SOIL

Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	480	60		mg/Kg	20	3/26/2020 4:13:11 PM	51338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 5 of 11

Analytical Report

Lab Order 2003984

Date Reported: 3/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S6

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 1:45:00 PM

Lab ID: 2003984-006

Matrix: SOIL

Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	95	60		mg/Kg	20	3/26/2020 4:25:32 PM	51338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2003984

Date Reported: 3/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW1

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 3:37:00 PM

Lab ID: 2003984-007

Matrix: SOIL

Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	110	60		mg/Kg	20	3/26/2020 4:37:52 PM	51338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2003984

Date Reported: 3/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW2

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 4:01:00 PM

Lab ID: 2003984-008

Matrix: SOIL

Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	270	60		mg/Kg	20	3/26/2020 4:50:13 PM	51338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2003984

Date Reported: 3/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW3

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 4:08:00 PM

Lab ID: 2003984-009

Matrix: SOIL

Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	59		mg/Kg	20	3/26/2020 7:43:04 PM	51353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2003984

Date Reported: 3/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW4

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 4:18:00 PM

Lab ID: 2003984-010

Matrix: SOIL

Received Date: 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	340	60		mg/Kg	20	3/26/2020 8:44:50 PM	51353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2003984

27-Mar-20

Client: Souder, Miller & Associates**Project:** Bell Lake 24 Fed 1H

Sample ID: MB-51338	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 51338	RunNo: 67593								
Prep Date: 3/26/2020	Analysis Date: 3/26/2020	SeqNo: 2334120	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-51338	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 51338	RunNo: 67593								
Prep Date: 3/26/2020	Analysis Date: 3/26/2020	SeqNo: 2334121	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.5	90	110			

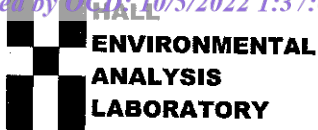
Sample ID: MB-51353	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 51353	RunNo: 67593								
Prep Date: 3/26/2020	Analysis Date: 3/26/2020	SeqNo: 2334151	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-51353	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 51353	RunNo: 67593								
Prep Date: 3/26/2020	Analysis Date: 3/26/2020	SeqNo: 2334152	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 2003984

RcptNo: 1

Received By: Yazmine Garduno 3/21/2020 8:06:00 AM

Completed By: Yazmine Garduno 3/21/2020 10:51:19 AM

Reviewed By: *IG* 3/23/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(≤ 2 or >12 unless noted)

Adjusted? _____

Checked by: DAD 3/23/20

Special Handling (if applicable)

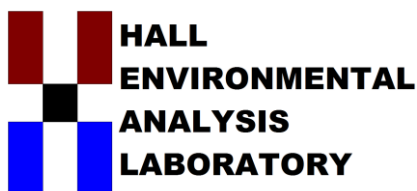
15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.1	Good				
2	0.5	Good				



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 13, 2020

Ashley Maxwell
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL:
FAX:

RE: Bell Lake 24 Fed 1H

OrderNo.: 2004399

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 16 sample(s) on 4/9/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S1-6"

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 1:58:00 PM

Lab ID: 2004399-001

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	600	98	H	mg/Kg	10	4/10/2020 11:00:45 PM	51692
Motor Oil Range Organics (MRO)	600	490	H	mg/Kg	10	4/10/2020 11:00:45 PM	51692
Surr: DNOP	0	55.1-146	SH	%Rec	10	4/10/2020 11:00:45 PM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	H	mg/Kg	1	4/11/2020 5:25:36 AM	51686
Surr: BFB	94.5	66.6-105	H	%Rec	1	4/11/2020 5:25:36 AM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S1-1'

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 2:20:00 PM

Lab ID: 2004399-002

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	70	9.5	H	mg/Kg	1	4/10/2020 11:24:38 PM	51692
Motor Oil Range Organics (MRO)	93	48	H	mg/Kg	1	4/10/2020 11:24:38 PM	51692
Surr: DNOP	86.2	55.1-146	H	%Rec	1	4/10/2020 11:24:38 PM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	H	mg/Kg	1	4/11/2020 5:49:06 AM	51686
Surr: BFB	94.8	66.6-105	H	%Rec	1	4/11/2020 5:49:06 AM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S1-1.5'

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 2:45:00 PM

Lab ID: 2004399-003

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	14	9.7	H	mg/Kg	1	4/10/2020 11:48:31 PM	51692
Motor Oil Range Organics (MRO)	ND	48	H	mg/Kg	1	4/10/2020 11:48:31 PM	51692
Surr: DNOP	85.4	55.1-146	H	%Rec	1	4/10/2020 11:48:31 PM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	4/11/2020 6:12:41 AM	51686
Surr: BFB	97.8	66.6-105	H	%Rec	1	4/11/2020 6:12:41 AM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S2-6"

Project: Bell Lake 24 Fed 1H

Collection Date: 4/7/2020 9:41:00 AM

Lab ID: 2004399-004

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	110	9.9		mg/Kg	1	4/11/2020 12:12:22 AM	51692
Motor Oil Range Organics (MRO)	170	50		mg/Kg	1	4/11/2020 12:12:22 AM	51692
Surr: DNOP	88.6	55.1-146		%Rec	1	4/11/2020 12:12:22 AM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/11/2020 6:36:12 AM	51686
Surr: BFB	94.1	66.6-105		%Rec	1	4/11/2020 6:36:12 AM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S2-1'

Project: Bell Lake 24 Fed 1H

Collection Date: 4/7/2020 9:43:00 AM

Lab ID: 2004399-005

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/11/2020 12:36:12 AM	51692
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/11/2020 12:36:12 AM	51692
Surr: DNOP	83.5	55.1-146		%Rec	1	4/11/2020 12:36:12 AM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/11/2020 7:46:49 AM	51686
Surr: BFB	96.2	66.6-105		%Rec	1	4/11/2020 7:46:49 AM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S2-1.5'

Project: Bell Lake 24 Fed 1H

Collection Date: 4/7/2020 9:45:00 AM

Lab ID: 2004399-006

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	23	9.5		mg/Kg	1	4/11/2020 12:59:59 AM	51692
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/11/2020 12:59:59 AM	51692
Surr: DNOP	85.2	55.1-146		%Rec	1	4/11/2020 12:59:59 AM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/11/2020 8:10:23 AM	51686
Surr: BFB	95.1	66.6-105		%Rec	1	4/11/2020 8:10:23 AM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S3-6"

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 2:05:00 PM

Lab ID: 2004399-007

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	1900	97	H	mg/Kg	10	4/11/2020 1:23:45 AM	51692
Motor Oil Range Organics (MRO)	1100	480	H	mg/Kg	10	4/11/2020 1:23:45 AM	51692
Surr: DNOP	0	55.1-146	SH	%Rec	10	4/11/2020 1:23:45 AM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	H	mg/Kg	1	4/11/2020 8:34:00 AM	51686
Surr: BFB	96.2	66.6-105	H	%Rec	1	4/11/2020 8:34:00 AM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S3-1'

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 2:30:00 PM

Lab ID: 2004399-008

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	280	9.9	H	mg/Kg	1	4/11/2020 1:47:31 AM	51692
Motor Oil Range Organics (MRO)	150	50	H	mg/Kg	1	4/11/2020 1:47:31 AM	51692
Surr: DNOP	90.9	55.1-146	H	%Rec	1	4/11/2020 1:47:31 AM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	H	mg/Kg	1	4/11/2020 6:22:17 PM	51686
Surr: BFB	96.7	66.6-105	H	%Rec	1	4/11/2020 6:22:17 PM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S3-1.5'

Project: Bell Lake 24 Fed 1H

Collection Date: 4/7/2020 9:58:00 AM

Lab ID: 2004399-009

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	22	9.9		mg/Kg	1	4/11/2020 2:11:13 AM	51692
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/11/2020 2:11:13 AM	51692
Surr: DNOP	86.5	55.1-146		%Rec	1	4/11/2020 2:11:13 AM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/11/2020 6:45:39 PM	51686
Surr: BFB	95.5	66.6-105		%Rec	1	4/11/2020 6:45:39 PM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S3-2'

Project: Bell Lake 24 Fed 1H

Collection Date: 4/7/2020 10:01:00 AM

Lab ID: 2004399-010

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/11/2020 2:34:51 AM	51692
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/11/2020 2:34:51 AM	51692
Surr: DNOP	85.6	55.1-146		%Rec	1	4/11/2020 2:34:51 AM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/11/2020 7:09:10 PM	51686
Surr: BFB	96.6	66.6-105		%Rec	1	4/11/2020 7:09:10 PM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S4-6"

Project: Bell Lake 24 Fed 1H

Collection Date: 4/7/2020 10:45:00 AM

Lab ID: 2004399-011

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	20	9.6		mg/Kg	1	4/11/2020 2:58:27 AM	51692
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/11/2020 2:58:27 AM	51692
Surr: DNOP	84.5	55.1-146		%Rec	1	4/11/2020 2:58:27 AM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/11/2020 8:20:08 PM	51686
Surr: BFB	98.3	66.6-105		%Rec	1	4/11/2020 8:20:08 PM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW1

Project: Bell Lake 24 Fed 1H

Collection Date: 4/7/2020 10:13:00 AM

Lab ID: 2004399-012

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	240	60		mg/Kg	20	4/11/2020 9:02:27 PM	51736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/11/2020 3:22:01 AM	51692
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/11/2020 3:22:01 AM	51692
Surr: DNOP	74.5	55.1-146		%Rec	1	4/11/2020 3:22:01 AM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/11/2020 8:44:00 PM	51686
Surr: BFB	103	66.6-105		%Rec	1	4/11/2020 8:44:00 PM	51686
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/11/2020 8:44:00 PM	51686
Toluene	ND	0.047		mg/Kg	1	4/11/2020 8:44:00 PM	51686
Ethylbenzene	ND	0.047		mg/Kg	1	4/11/2020 8:44:00 PM	51686
Xylenes, Total	ND	0.095		mg/Kg	1	4/11/2020 8:44:00 PM	51686
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	4/11/2020 8:44:00 PM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW4

Project: Bell Lake 24 Fed 1H

Collection Date: 4/7/2020 10:23:00 AM

Lab ID: 2004399-013

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	540	60		mg/Kg	20	4/11/2020 9:14:48 PM	51736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/11/2020 3:45:35 AM	51692
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/11/2020 3:45:35 AM	51692
Surr: DNOP	72.6	55.1-146		%Rec	1	4/11/2020 3:45:35 AM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/11/2020 9:55:19 PM	51686
Surr: BFB	101	66.6-105		%Rec	1	4/11/2020 9:55:19 PM	51686
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/11/2020 9:55:19 PM	51686
Toluene	ND	0.047		mg/Kg	1	4/11/2020 9:55:19 PM	51686
Ethylbenzene	ND	0.047		mg/Kg	1	4/11/2020 9:55:19 PM	51686
Xylenes, Total	ND	0.094		mg/Kg	1	4/11/2020 9:55:19 PM	51686
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	4/11/2020 9:55:19 PM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S5-6"

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 2:10:00 PM

Lab ID: 2004399-014

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	31	9.7	H	mg/Kg	1	4/11/2020 4:09:06 AM	51692
Motor Oil Range Organics (MRO)	ND	48	H	mg/Kg	1	4/11/2020 4:09:06 AM	51692
Surr: DNOP	81.8	55.1-146	H	%Rec	1	4/11/2020 4:09:06 AM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	H	mg/Kg	1	4/11/2020 10:19:05 PM	51686
Surr: BFB	101	66.6-105	H	%Rec	1	4/11/2020 10:19:05 PM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S5-1'

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 2:38:00 PM

Lab ID: 2004399-015

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	22	9.9	H	mg/Kg	1	4/11/2020 4:32:36 AM	51692
Motor Oil Range Organics (MRO)	ND	50	H	mg/Kg	1	4/11/2020 4:32:36 AM	51692
Surr: DNOP	81.5	55.1-146	H	%Rec	1	4/11/2020 4:32:36 AM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	4/11/2020 10:42:48 PM	51686
Surr: BFB	99.9	66.6-105	H	%Rec	1	4/11/2020 10:42:48 PM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2004399

Date Reported: 4/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S5-1.5'

Project: Bell Lake 24 Fed 1H

Collection Date: 3/19/2020 2:57:00 PM

Lab ID: 2004399-016

Matrix: SOIL

Received Date: 4/9/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8	H	mg/Kg	1	4/11/2020 4:56:04 AM	51692
Motor Oil Range Organics (MRO)	ND	49	H	mg/Kg	1	4/11/2020 4:56:04 AM	51692
Surr: DNOP	77.2	55.1-146	H	%Rec	1	4/11/2020 4:56:04 AM	51692
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	4/11/2020 11:06:37 PM	51686
Surr: BFB	100	66.6-105	H	%Rec	1	4/11/2020 11:06:37 PM	51686

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004399

13-Apr-20

Client: Souder, Miller & Associates**Project:** Bell Lake 24 Fed 1H

Sample ID: MB-51736	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 51736	RunNo: 68062
Prep Date: 4/11/2020	Analysis Date: 4/11/2020	SeqNo: 2352424 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-51736	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 51736	RunNo: 68062
Prep Date: 4/11/2020	Analysis Date: 4/11/2020	SeqNo: 2352425 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 93.4 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004399

13-Apr-20

Client: Souder, Miller & Associates**Project:** Bell Lake 24 Fed 1H

Sample ID: MB-51701	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 51701			RunNo: 68007						
Prep Date: 4/10/2020	Analysis Date: 4/10/2020			SeqNo: 2350334		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		84.9	55.1	146			

Sample ID: LCS-51701	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 51701			RunNo: 68007						
Prep Date: 4/10/2020	Analysis Date: 4/10/2020			SeqNo: 2350336		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.5	55.1	146			

Sample ID: MB-51692	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 51692			RunNo: 68007						
Prep Date: 4/9/2020	Analysis Date: 4/10/2020			SeqNo: 2351287		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.2		10.00		82.5	55.1	146			

Sample ID: LCS-51692	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 51692			RunNo: 68007						
Prep Date: 4/9/2020	Analysis Date: 4/10/2020			SeqNo: 2351288		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.0	70	130			
Surr: DNOP	4.5		5.000		89.5	55.1	146			

Sample ID: MB-51703	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 51703			RunNo: 68041						
Prep Date: 4/10/2020	Analysis Date: 4/11/2020			SeqNo: 2351310		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		92.4	55.1	146			

Sample ID: LCS-51703	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 51703			RunNo: 68041						
Prep Date: 4/10/2020	Analysis Date: 4/11/2020			SeqNo: 2351311		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		96.9	55.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004399

13-Apr-20

Client: Souder, Miller & Associates**Project:** Bell Lake 24 Fed 1H

Sample ID: 2004399-004ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S2-6"	Batch ID: 51686	RunNo: 68015								
Prep Date: 4/9/2020	Analysis Date: 4/11/2020	SeqNo: 2350909 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.90	0	96.3	69.1	142			
Surr: BFB	1100		996.0		106	66.6	105			S

Sample ID: 2004399-004amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S2-6"	Batch ID: 51686	RunNo: 68015								
Prep Date: 4/9/2020	Analysis Date: 4/11/2020	SeqNo: 2350910 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	24.95	0	82.5	69.1	142	15.2	20	
Surr: BFB	1000		998.0		103	66.6	105	0	0	

Sample ID: lcs-51654	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 51654	RunNo: 68015								
Prep Date: 4/8/2020	Analysis Date: 4/10/2020	SeqNo: 2350912 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		107	66.6	105			S

Sample ID: lcs-51686	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 51686	RunNo: 68015								
Prep Date: 4/9/2020	Analysis Date: 4/11/2020	SeqNo: 2350913 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.7	80	120			
Surr: BFB	1100		1000		107	66.6	105			S

Sample ID: mb-51654	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 51654	RunNo: 68015								
Prep Date: 4/8/2020	Analysis Date: 4/10/2020	SeqNo: 2350914 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	960		1000		96.1	66.6	105			

Sample ID: mb-51686	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 51686	RunNo: 68015								
Prep Date: 4/9/2020	Analysis Date: 4/11/2020	SeqNo: 2350915 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	66.6	105			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004399

13-Apr-20

Client: Souder, Miller & Associates**Project:** Bell Lake 24 Fed 1H

Sample ID: mb-51694	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 51694				RunNo: 68059					
Prep Date: 4/9/2020	Analysis Date: 4/12/2020				SeqNo: 2352101	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		98.9	66.6	105			

Sample ID: LCS-51694	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 51694				RunNo: 68059					
Prep Date: 4/9/2020	Analysis Date: 4/12/2020				SeqNo: 2352103	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		110	66.6	105			S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004399

13-Apr-20

Client: Souder, Miller & Associates**Project:** Bell Lake 24 Fed 1H

Sample ID: LCS-51654	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 51654				RunNo: 68015					
Prep Date: 4/8/2020	Analysis Date: 4/10/2020				SeqNo: 2350959	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: LCS-51686	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 51686				RunNo: 68015					
Prep Date: 4/9/2020	Analysis Date: 4/11/2020				SeqNo: 2350960	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: mb-51654	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 51654				RunNo: 68015					
Prep Date: 4/8/2020	Analysis Date: 4/10/2020				SeqNo: 2350961	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	80	120			

Sample ID: mb-51686	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 51686				RunNo: 68015					
Prep Date: 4/9/2020	Analysis Date: 4/11/2020				SeqNo: 2350962	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: 2004399-012ams	SampType: MS				TestCode: EPA Method 8021B: Volatiles					
Client ID: SW1	Batch ID: 51686				RunNo: 68059					
Prep Date: 4/9/2020	Analysis Date: 4/11/2020				SeqNo: 2352142	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	0.9872	0	90.2	78.5	119			
Toluene	0.91	0.049	0.9872	0	92.1	75.7	123			
Ethylbenzene	0.94	0.049	0.9872	0	95.2	74.3	126			
Xylenes, Total	2.8	0.099	2.962	0	95.6	72.9	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 21 of 22

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004399

13-Apr-20

Client: Souder, Miller & Associates**Project:** Bell Lake 24 Fed 1H

Sample ID: 2004399-012ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW1	Batch ID: 51686	RunNo: 68059								
Prep Date: 4/9/2020	Analysis Date: 4/11/2020	SeqNo: 2352142 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		0.9872		106	80	120			

Sample ID: 2004399-012amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW1	Batch ID: 51686	RunNo: 68059								
Prep Date: 4/9/2020	Analysis Date: 4/11/2020	SeqNo: 2352143 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9814	0	91.4	78.5	119	0.676	20	
Toluene	0.93	0.049	0.9814	0	94.6	75.7	123	2.06	20	
Ethylbenzene	0.95	0.049	0.9814	0	96.6	74.3	126	0.922	20	
Xylenes, Total	2.9	0.098	2.944	0	97.3	72.9	130	1.09	20	
Surr: 4-Bromofluorobenzene	1.0		0.9814		104	80	120	0	0	

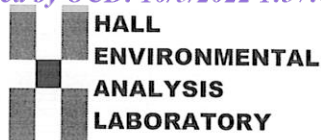
Sample ID: mb-51694	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 51694	RunNo: 68059								
Prep Date: 4/9/2020	Analysis Date: 4/12/2020	SeqNo: 2352160 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.1	80	120			

Sample ID: lcs-51694	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 51694	RunNo: 68059								
Prep Date: 4/9/2020	Analysis Date: 4/12/2020	SeqNo: 2352161 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 2004399

RcptNo: 1

Received By: Juan Rojas

4/9/2020 8:15:00 AM

Juan Rojas

Completed By: Isaiah Ortiz

4/9/2020 10:08:58 AM

*IOx*Reviewed By: *IO**4/9/20*

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *DAD 4/9/20*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Not Present			
2	0.3	Good	Not Present			

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Chain-of-Custody Record									
Client: SMA		Turn-Around Time: 5 day							
Mailing Address:		☒ Standard ☐ Rush							
		Project Name:							
Phone #:		Project #:							
email or Fax#:		Project Manager:							
QA/QC Package:		Sampler: SO							
☒ Standard ☐ Level 4 (Full Validation)		☐ Az Compliance ☐ Yes ☐ No							
☐ NELAC ☐ Other		# of Coolers: 2							
☐ EDD (Type)		Cooler Temp (including CF): 2.4-0.3 = 2.1 (°C)							
		Container Type and #		Preservative Type		HEAL No.			
Date	Time	Matrix	Sample Name						
3/19/20	1:58	Soil	S1-6"	402		Cool		0.6-0.3 = 0.3	
I	2:20	I	S1-1'	I		I		2004399	
I	2:45	I	S1-1.5'					-001	
4/7/20	9:41	I	S2-6"					-002	
I	9:43	I	S2-1'					-003	
I	9:45	I	S2-1.5'					-004	
3/19/20	2:05	I	S3-6"					-005	
3/19/20	2:30	I	S3-1'					-006	
4/7/20	9:58	I	S3-1.5'					-007	
4/7/20	10:01	I	S3-2'					-008	
I	10:45	I	S4-6"					-009	
I	10:13	I	SW1					-010	
								-011	
								-012	
Date:	Time:	Relinquished by:	Received by:		Via:	Date:	Time		
4/8/20	1330	Sebastian Dreyer	I			4/8/20	1330		
Date:	Time:	Relinquished by:	Received by:		Via:	Date:	Time		
4/8/20	1910	I	M.A. Carrier			4/9/20	8:15		

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 24, 2020

ASHLEY MAXWELL

SOUDER MILLER AND ASSOCIATES

201 S. HALAGUENO

CARLSBAD, NM 88220

RE: BELL LAKE 24

Enclosed are the results of analyses for samples received by the laboratory on 04/23/20 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

SOUDER MILLER AND ASSOCIATES
 ASHLEY MAXWELL
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

Received: 04/23/2020
 Reported: 04/24/2020
 Project Name: BELL LAKE 24
 Project Number: NOT GIVEN
 Project Location: DEVON ENERGY

Sampling Date: 04/23/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SW 1 (H001179-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2020	ND	1.96	98.0	2.00	4.19		
Toluene*	<0.050	0.050	04/24/2020	ND	1.99	99.7	2.00	4.40		
Ethylbenzene*	<0.050	0.050	04/24/2020	ND	2.08	104	2.00	3.97		
Total Xylenes*	<0.150	0.150	04/24/2020	ND	6.08	101	6.00	3.88		
Total BTX	<0.300	0.300	04/24/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/24/2020	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2020	ND	193	96.6	200	0.132	
DRO >C10-C28*	88.7	10.0	04/23/2020	ND	201	100	200	5.93	
EXT DRO >C28-C36	20.7	10.0	04/23/2020	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

SOUDER MILLER AND ASSOCIATES
 ASHLEY MAXWELL
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

Received: 04/23/2020
 Reported: 04/24/2020
 Project Name: BELL LAKE 24
 Project Number: NOT GIVEN
 Project Location: DEVON ENERGY

Sampling Date: 04/23/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SW 2 (H001179-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2020	ND	1.96	98.0	2.00	4.19		
Toluene*	<0.050	0.050	04/24/2020	ND	1.99	99.7	2.00	4.40		
Ethylbenzene*	<0.050	0.050	04/24/2020	ND	2.08	104	2.00	3.97		
Total Xylenes*	<0.150	0.150	04/24/2020	ND	6.08	101	6.00	3.88		
Total BTX	<0.300	0.300	04/24/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7440	16.0	04/24/2020	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2020	ND	193	96.6	200	0.132	
DRO >C10-C28*	364	10.0	04/23/2020	ND	201	100	200	5.93	
EXT DRO >C28-C36	177	10.0	04/23/2020	ND					

Surrogate: 1-Chlorooctane 76.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.4 % 42.2-156

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES
 ASHLEY MAXWELL
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

Received: 04/23/2020
 Reported: 04/24/2020
 Project Name: BELL LAKE 24
 Project Number: NOT GIVEN
 Project Location: DEVON ENERGY

Sampling Date: 04/23/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SW 3 (H001179-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2020	ND	1.96	98.0	2.00	4.19		
Toluene*	<0.050	0.050	04/24/2020	ND	1.99	99.7	2.00	4.40		
Ethylbenzene*	<0.050	0.050	04/24/2020	ND	2.08	104	2.00	3.97		
Total Xylenes*	<0.150	0.150	04/24/2020	ND	6.08	101	6.00	3.88		
Total BTX	<0.300	0.300	04/24/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7040	16.0	04/24/2020	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2020	ND	193	96.6	200	0.132	
DRO >C10-C28*	125	10.0	04/23/2020	ND	201	100	200	5.93	
EXT DRO >C28-C36	33.8	10.0	04/23/2020	ND					

Surrogate: 1-Chlorooctane 75.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.7 % 42.2-156

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES
 ASHLEY MAXWELL
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

Received: 04/23/2020
 Reported: 04/24/2020
 Project Name: BELL LAKE 24
 Project Number: NOT GIVEN
 Project Location: DEVON ENERGY

Sampling Date: 04/23/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SW 4 (H001179-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2020	ND	1.96	98.0	2.00	4.19		
Toluene*	<0.050	0.050	04/24/2020	ND	1.99	99.7	2.00	4.40		
Ethylbenzene*	<0.050	0.050	04/24/2020	ND	2.08	104	2.00	3.97		
Total Xylenes*	<0.150	0.150	04/24/2020	ND	6.08	101	6.00	3.88		
Total BTX	<0.300	0.300	04/24/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	04/24/2020	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2020	ND	193	96.6	200	0.132	
DRO >C10-C28*	1390	10.0	04/23/2020	ND	201	100	200	5.93	
EXT DRO >C28-C36	445	10.0	04/23/2020	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 122 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

SOUDER MILLER AND ASSOCIATES
 ASHLEY MAXWELL
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

Received: 04/23/2020
 Reported: 04/24/2020
 Project Name: BELL LAKE 24
 Project Number: NOT GIVEN
 Project Location: DEVON ENERGY

Sampling Date: 04/23/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: CS 1 (H001179-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2020	ND	1.96	98.0	2.00	4.19		
Toluene*	<0.050	0.050	04/24/2020	ND	1.99	99.7	2.00	4.40		
Ethylbenzene*	<0.050	0.050	04/24/2020	ND	2.08	104	2.00	3.97		
Total Xylenes*	<0.150	0.150	04/24/2020	ND	6.08	101	6.00	3.88		
Total BTEx	<0.300	0.300	04/24/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/24/2020	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2020	ND	193	96.6	200	0.132	
DRO >C10-C28*	42.6	10.0	04/23/2020	ND	201	100	200	5.93	
EXT DRO >C28-C36	15.9	10.0	04/23/2020	ND					

Surrogate: 1-Chlorooctane 84.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.9 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

SOUDER MILLER AND ASSOCIATES
 ASHLEY MAXWELL
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

Received: 04/23/2020
 Reported: 04/24/2020
 Project Name: BELL LAKE 24
 Project Number: NOT GIVEN
 Project Location: DEVON ENERGY

Sampling Date: 04/23/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: CS 2 (H001179-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2020	ND	1.96	98.0	2.00	4.19		
Toluene*	<0.050	0.050	04/24/2020	ND	1.99	99.7	2.00	4.40		
Ethylbenzene*	<0.050	0.050	04/24/2020	ND	2.08	104	2.00	3.97		
Total Xylenes*	<0.150	0.150	04/24/2020	ND	6.08	101	6.00	3.88		
Total BTX	<0.300	0.300	04/24/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	04/24/2020	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2020	ND	193	96.6	200	0.132	
DRO >C10-C28*	104	10.0	04/24/2020	ND	201	100	200	5.93	
EXT DRO >C28-C36	19.6	10.0	04/24/2020	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.4 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

SOUDER MILLER AND ASSOCIATES
 ASHLEY MAXWELL
 201 S. HALAGUENO
 CARLSBAD NM, 88220
 Fax To: NONE

Received: 04/23/2020
 Reported: 04/24/2020
 Project Name: BELL LAKE 24
 Project Number: NOT GIVEN
 Project Location: DEVON ENERGY

Sampling Date: 04/23/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: CS 3 (H001179-07)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2020	ND	1.96	98.0	2.00	4.19	
Toluene*	<0.050	0.050	04/24/2020	ND	1.99	99.7	2.00	4.40	
Ethylbenzene*	<0.050	0.050	04/24/2020	ND	2.08	104	2.00	3.97	
Total Xylenes*	<0.150	0.150	04/24/2020	ND	6.08	101	6.00	3.88	
Total BTX	<0.300	0.300	04/24/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	04/24/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2020	ND	193	96.6	200	0.132	
DRO >C10-C28*	140	10.0	04/24/2020	ND	201	100	200	5.93	
EXT DRO >C28-C36	34.5	10.0	04/24/2020	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

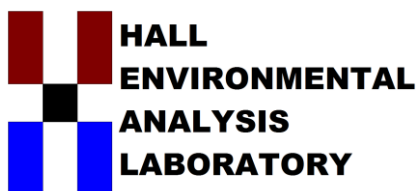
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 06, 2020

Ashley Maxwell
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-8801
FAX:

RE: Bell Lake 24

OrderNo.: 2005104

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/5/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2005104

Date Reported: 5/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW2 (0-2')

Project: Bell Lake 24

Collection Date: 4/30/2020 10:50:00 AM

Lab ID: 2005104-001

Matrix: MEOH (SOIL)

Received Date: 5/5/2020 8:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/5/2020 10:16:19 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/5/2020 10:16:19 AM
Surr: DNOP	101	55.1-146		%Rec	1	5/5/2020 10:16:19 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/5/2020 9:41:17 AM
Surr: BFB	102	66.6-105		%Rec	1	5/5/2020 9:41:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/5/2020 9:41:17 AM
Toluene	ND	0.047		mg/Kg	1	5/5/2020 9:41:17 AM
Ethylbenzene	ND	0.047		mg/Kg	1	5/5/2020 9:41:17 AM
Xylenes, Total	ND	0.093		mg/Kg	1	5/5/2020 9:41:17 AM
Surr: 4-Bromofluorobenzene	97.5	80-120		%Rec	1	5/5/2020 9:41:17 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	260	60		mg/Kg	20	5/5/2020 11:56:59 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 8

Analytical Report

Lab Order 2005104

Date Reported: 5/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW3 (0-2')

Project: Bell Lake 24

Collection Date: 4/30/2020 11:31:00 AM

Lab ID: 2005104-002

Matrix: MEOH (SOIL)

Received Date: 5/5/2020 8:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/5/2020 10:40:52 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/5/2020 10:40:52 AM
Surr: DNOP	98.9	55.1-146		%Rec	1	5/5/2020 10:40:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	5/5/2020 10:04:56 AM
Surr: BFB	101	66.6-105		%Rec	1	5/5/2020 10:04:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	5/5/2020 10:04:56 AM
Toluene	ND	0.036		mg/Kg	1	5/5/2020 10:04:56 AM
Ethylbenzene	ND	0.036		mg/Kg	1	5/5/2020 10:04:56 AM
Xylenes, Total	ND	0.072		mg/Kg	1	5/5/2020 10:04:56 AM
Surr: 4-Bromofluorobenzene	98.1	80-120		%Rec	1	5/5/2020 10:04:56 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	59		mg/Kg	20	5/5/2020 12:09:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 8

Analytical Report

Lab Order 2005104

Date Reported: 5/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS2 (2')

Project: Bell Lake 24

Collection Date: 4/30/2020 3:08:00 PM

Lab ID: 2005104-003

Matrix: MEOH (SOIL)

Received Date: 5/5/2020 8:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/5/2020 11:05:13 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/5/2020 11:05:13 AM
Surr: DNOP	95.2	55.1-146		%Rec	1	5/5/2020 11:05:13 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	5/5/2020 10:28:40 AM
Surr: BFB	101	66.6-105		%Rec	1	5/5/2020 10:28:40 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	5/5/2020 10:28:40 AM
Toluene	ND	0.036		mg/Kg	1	5/5/2020 10:28:40 AM
Ethylbenzene	ND	0.036		mg/Kg	1	5/5/2020 10:28:40 AM
Xylenes, Total	ND	0.071		mg/Kg	1	5/5/2020 10:28:40 AM
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	1	5/5/2020 10:28:40 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	5/5/2020 12:21:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2005104

Date Reported: 5/6/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CS3 (2')

Project: Bell Lake 24

Collection Date: 4/30/2020 3:40:00 PM

Lab ID: 2005104-004

Matrix: MEOH (SOIL)

Received Date: 5/5/2020 8:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/5/2020 10:36:14 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/5/2020 10:36:14 AM
Surr: DNOP	97.6	55.1-146		%Rec	1	5/5/2020 10:36:14 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	5/5/2020 10:52:26 AM
Surr: BFB	105	66.6-105	S	%Rec	1	5/5/2020 10:52:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	5/5/2020 10:52:26 AM
Toluene	ND	0.037		mg/Kg	1	5/5/2020 10:52:26 AM
Ethylbenzene	ND	0.037		mg/Kg	1	5/5/2020 10:52:26 AM
Xylenes, Total	ND	0.074		mg/Kg	1	5/5/2020 10:52:26 AM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	5/5/2020 10:52:26 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	170	60		mg/Kg	20	5/5/2020 12:34:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 200510406-May-20

Client: Souder, Miller & Associates
Project: Bell Lake 24

Sample ID: MB-52271	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 52271	RunNo: 68668
Prep Date: 5/5/2020	Analysis Date: 5/5/2020	SeqNo: 2376034 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-52271	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 52271	RunNo: 68668
Prep Date: 5/5/2020	Analysis Date: 5/5/2020	SeqNo: 2376035 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.7 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2005104

06-May-20

Client: Souder, Miller & Associates**Project:** Bell Lake 24

Sample ID: LCS-52267	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 52267			RunNo: 68633						
Prep Date: 5/5/2020	Analysis Date: 5/5/2020			SeqNo: 2375273		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.2	70	130			
Surr: DNOP	4.4		5.000		88.7	55.1	146			

Sample ID: MB-52267	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 52267			RunNo: 68633						
Prep Date: 5/5/2020	Analysis Date: 5/5/2020			SeqNo: 2375274		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.0	55.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2005104

06-May-20

Client: Souder, Miller & Associates**Project:** Bell Lake 24

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: G68640		RunNo: 68640							
Prep Date:	Analysis Date: 5/5/2020		SeqNo: 2375858		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	66.6	105			S

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: G68640		RunNo: 68640							
Prep Date:	Analysis Date: 5/5/2020		SeqNo: 2375859		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.7	80	120			
Surr: BFB	1100		1000		115	66.6	105			S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2005104

06-May-20

Client: Souder, Miller & Associates**Project:** Bell Lake 24

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: B68640		RunNo: 68640							
Prep Date:	Analysis Date: 5/5/2020		SeqNo: 2375871		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: B68640		RunNo: 68640							
Prep Date:	Analysis Date: 5/5/2020		SeqNo: 2375872		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	0.95	0.050	1.000	0	95.2	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

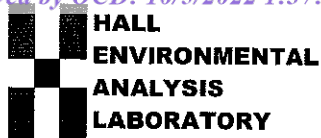
Sample ID: 2005104-001ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: SW2 (0-2')	Batch ID: B68640		RunNo: 68640							
Prep Date:	Analysis Date: 5/5/2020		SeqNo: 2375875		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.023	0.9311	0	97.8	78.5	119			
Toluene	0.95	0.047	0.9311	0.02467	99.1	75.7	123			
Ethylbenzene	0.94	0.047	0.9311	0	101	74.3	126			
Xylenes, Total	2.8	0.093	2.793	0.04814	99.0	72.9	130			
Surr: 4-Bromofluorobenzene	0.96		0.9311		103	80	120			

Sample ID: 2005104-001amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: SW2 (0-2')	Batch ID: B68640		RunNo: 68640							
Prep Date:	Analysis Date: 5/5/2020		SeqNo: 2375876		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.023	0.9311	0	96.7	78.5	119	1.09	20	
Toluene	0.94	0.047	0.9311	0.02467	97.9	75.7	123	1.16	20	
Ethylbenzene	0.94	0.047	0.9311	0	101	74.3	126	0.593	20	
Xylenes, Total	2.8	0.093	2.793	0.04814	98.2	72.9	130	0.831	20	
Surr: 4-Bromofluorobenzene	0.98		0.9311		105	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **DEVON ENERGY**Work Order Number: **2005104**

RcptNo: 1

Received By: **Isaiah Ortiz**

5/5/2020 8:59:00 AM

I-OK

Completed By: **Isaiah Ortiz**

5/5/2020 9:10:54 AM

I-OK

Reviewed By:

JR 5/5/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered?

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: gm 5/5/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

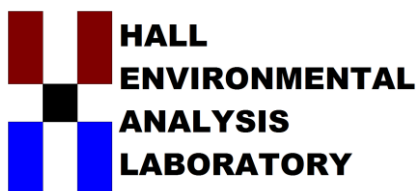
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Not Present			

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
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Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 13, 2020

Ashley Maxwell
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL:
FAX

RE: Bell Lake 24

OrderNo.: 2005350

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/8/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2005350

Date Reported: 5/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW1

Project: Bell Lake 24

Collection Date: 5/6/2020 4:10:00 PM

Lab ID: 2005350-001

Matrix: SOIL

Received Date: 5/8/2020 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/11/2020 1:11:17 PM	52380
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/11/2020 1:11:17 PM	52380
Surr: DNOP	96.9	55.1-146		%Rec	1	5/11/2020 1:11:17 PM	52380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/11/2020 3:31:58 PM	52350
Surr: BFB	98.7	66.6-105		%Rec	1	5/11/2020 3:31:58 PM	52350

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 3

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2005350

13-May-20

Client: Souder, Miller & Associates**Project:** Bell Lake 24

Sample ID: MB-52380	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 52380			RunNo: 68785						
Prep Date: 5/11/2020	Analysis Date: 5/11/2020			SeqNo: 2380388		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		114	55.1	146			

Sample ID: LCS-52380	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 52380			RunNo: 68785						
Prep Date: 5/11/2020	Analysis Date: 5/11/2020			SeqNo: 2380489		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.2	70	130			
Surr: DNOP	4.9		5.000		99.0	55.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2005350

13-May-20

Client: Souder, Miller & Associates**Project:** Bell Lake 24

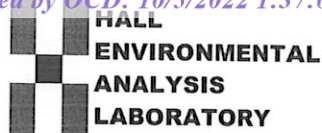
Sample ID: mb-52350	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 52350				RunNo: 68802					
Prep Date: 5/8/2020	Analysis Date: 5/11/2020				SeqNo: 2380976	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.3	66.6	105			

Sample ID: lcs-52350	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 52350				RunNo: 68802					
Prep Date: 5/8/2020	Analysis Date: 5/11/2020				SeqNo: 2380977	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.4	80	120			
Surr: BFB	1100		1000		106	66.6	105			S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 2005350

RcptNo: 1

Received By: Isaiah Ortiz

5/8/2020 12:45:00 PM

I-Ox

Completed By: Isaiah Ortiz

5/8/2020 7:40:19 AM

I-Ox

Reviewed By: DAD 5/8/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: EM 5/8/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Not Present			
2	1.2	Good	Not Present			

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 149053

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 149053
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Deferral approved. Incident will remain open until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first, and remediation is completed. A complete closure report must be submitted through the OCD Permitting website.	10/5/2022